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☐	L3	L2 and transformation efficiency	11
☐	L2	(F adj1 genetic material or F adj1 episome) and (coli or bacterium or bacteria)	95
☐	L1	(Fadj1 genetic material or Fadj1 episome) and (coli or bacterium or bacteria)	0

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First Hit | Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

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☐ 1. Document ID: US 7029847 B2

Using default format because multiple data bases are involved.

L3: Entry 1 of 11 File: USPT Apr 18, 2006

US-PAT-NO: 7029847
DOCUMENT-IDENTIFIER: US 7029847 B2

TITLE: Methods and compositions for interaction trap assays

DATE-ISSUED: April 18, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20020119498 A1	August 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Joung; J. Keith	Winchester	MA		US
Miller; Jeffrey	Cambridge	MA		US
Pabo; Carl O.	Newton	MA		US

US-CL-CURRENT: 435/6; 435/455, 435/7.1, 435/7.2, 435/DIG.1, 435/DIG.2, 435/DIG.3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 2. Document ID: US 6914123 B2

L3: Entry 2 of 11 File: USPT Jul 5, 2005

US-PAT-NO: 6914123
DOCUMENT-IDENTIFIER: US 6914123 B2
** See image for Certificate of Correction **

TITLE: Hairpin peptides with a novel structural motif and methods relating thereto

DATE-ISSUED: July 5, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cochran; Andrea G.	San Francisco	CA		
Starovasnik; Melissa A.	San Francisco	CA		

Skelton; Nicholas San Mateo CA

US-CL-CURRENT: 530/326; 435/7.1, 530/300, 530/324, 530/325, 530/327

ABSTRACT:

The invention is directed to a model system for structure-activity relationship analysis of peptide or protein molecules involved in important biological processes. Provided by the invention are combinatorial peptide libraries comprising peptides with a novel "tryptophan zipper" scaffold (trpzip) that forms stable .beta.-hairpin structure in solution. Methods of selecting and using such scaffold are provided herein, which are useful for mimicking native protein structures and interactions and designing therapeutic agents. Thus, the invention has profound utility for biological studies and drug development.

6 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 6

☐ 3. Document ID: US 6709861 B2

L3: Entry 3 of 11 File: USPT Mar 23, 2004

US-PAT-NO: 6709861
DOCUMENT-IDENTIFIER: US 6709861 B2

TITLE: Cloning vectors and vector components

DATE-ISSUED: March 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mead; David Alan	Middleton	WI		
Godiska; Ronald	Verona	WI		

US-CL-CURRENT: 435/320.1; 536/23.1

ABSTRACT:

The present invention relates to systems, methods, and compositions for cloning and sequencing insert nucleic acid sequences. In particular, the present invention provides vectors and vector components configured for multiplex cloning, multiplex sequencing, and fixed orientation cloning. The present invention also provides vectors and vector components that allow insert sequences that are deleterious to a host cell to be successfully cloned.

15 Claims, 16 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 16

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De

☐ 4. Document ID: US 6709854 B2

L3: Entry 4 of 11 File: USPT Mar 23, 2004

US-PAT-NO: 6709854
DOCUMENT-IDENTIFIER: US 6709854 B2

TITLE: Method capable of increasing competency of bacterial cell transformation

DATE-ISSUED: March 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Donahue, Jr.; Robert A.	Falls Church	VA		
Bebee; Robert L.	Gaithersburg	MD		

US-CL-CURRENT: 435/252.33; 435/252.8

ABSTRACT:

The invention concerns bacterial strains capable of enhanced transformation efficiencies that are produced by the introduction of the F' genetic material. The invention also concerns processes for producing transformable competent bacteria with enhanced transformation efficiencies.

17 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De

☐ 5. Document ID: US 6274369 B1

L3: Entry 5 of 11 File: USPT Aug 14, 2001

US-PAT-NO: 6274369
DOCUMENT-IDENTIFIER: US 6274369 B1

TITLE: Method capable of increasing competency of bacterial cell transformation

DATE-ISSUED: August 14, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Donahue, Jr.; Robert A.	Falls Church	VA		
Bebee; Robert L.	Gaithersburg	MD		

US-CL-CURRENT: 435/252.33; 435/476, 435/488

ABSTRACT:

The invention concerns bacterial strains capable of enhanced transformation efficiencies that are produced by the introduction of the F' genetic material. The invention also concerns processes for producing transformable competent bacteria with enhanced transformation efficiencies.

14 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw. De

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☐ 6. Document ID: US 5985644 A

L3: Entry 6 of 11 File: USPT Nov 16, 1999

US-PAT-NO: 5985644
DOCUMENT-IDENTIFIER: US 5985644 A

TITLE: Bacterial catabolism of chitin

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Roseman; Saul	Baltimore	MD		
Bassler; Bonnie	Princeton	NJ		
Keyhani; Nemat O.	Balitmore	MD		
Chitlaru; Edith	Rehovot			IL
Yu; Charles	Lutherville	MD		

US-CL-CURRENT: 435/252.3; 435/200, 435/209, 435/320.1, 435/909, 536/23.2, 536/23.7

ABSTRACT:

Three genes involved in the catabolism of chitin in Vibrio furnissii: endI encodes periplasmic chitodextrinase, exoI encodes periplasmic .beta.-N-acetylglucosaminidase, and exoII encodes aryl .beta.-N-acetylglucosaminidase are provided. The complete nucleotide sequence for each of the three genes and the complete amino acid for the corresponding enzymes are demonstrated along with host cells capable of expressing the recombinant enzymes. The present invention also describes four specific strains of V. furnissii having deletions in genes involved in the catabolic pathway of chitin and a process for the production of chitin oligosaccharides.

6 Claims, 7 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 7

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw. De

☐ 7. Document ID: US 5792647 A

L3: Entry 7 of 11 File: USPT Aug 11, 1998

US-PAT-NO: 5792647
DOCUMENT-IDENTIFIER: US 5792647 A

TITLE: Bacterial catabolism of chitin

DATE-ISSUED: August 11, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Roseman; Saul	Baltimore	MD		
Bassler; Bonnie	Princeton	NJ		
Keyhani; Nemat O.	Baltimore	MD		
Chitlaru; Edith	Rehovot			IL
Rowe; Chris	Timonium	MD		
Yu; Charles	Lutherville	MD		

US-CL-CURRENT: 435/252.3; 435/209, 435/320.1, 435/71.2, 435/909, 536/23.2

ABSTRACT:

The present invention reveals the cloning of four genes involved in the catabolism of chitin in Vibrio furnissii: endI encodes periplasmic chitodextrinase, exoI encodes periplasmic .beta.-N-acetylglucosaminidase, exoII encodes aryl .beta.-N-acetyl-glucosaminidase and chiA encodes extracellular chitinase. The complete nucleotide sequence for each of the four genes and the complete amino acid for the corresponding enzymes are demonstrated along with host cells capable of expressing the recombinant enzymes. The present invention also describes four specific strains of V. furnissii having deletions in genes involved in the catabolic pathway of chitin and a process for the production of chitin oligosaccharides.

4 Claims, 7 Drawing figures
Exemplary Claim Number: 3
Number of Drawing Sheets: 7

☐ 8. Document ID: US 5707841 A

L3: Entry 8 of 11 File: USPT Jan 13, 1998

US-PAT-NO: 5707841
DOCUMENT-IDENTIFIER: US 5707841 A

TITLE: Process of producing highly transformable bacterial cells and cells produced thereby

DATE-ISSUED: January 13, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Greener; Alan L.	San Diego	CA		

US-CL-CURRENT: 435/488; 435/252.33, 435/252.8

ABSTRACT:

The invention provided herein includes gram negative bacteria cells containing a gene encoding an enzyme with carbohydrate degrading activity that had been rendered competent to transformation. Carbohydrate degrading enzymes of interest for use in the invention include alpha-amylase. The competent cells of the subject invention may be frozen so as to provide for prolonged storage. Other aspects of the invention include methods for rendering gram negative bacterial cells, such as E. coli cells competent to transformation. These methods involve the step of transferring a gene encoding an enzyme with carbohydrate degrading activity into E. coli cells and subsequently rendering the cells competent using any of a variety of competency inducing procedures.

13 Claims, 0 Drawing figures
Exemplary Claim Number: 1

☐ 9. Document ID: US 5512468 A

L3: Entry 9 of 11 File: USPT Apr 30, 1996

US-PAT-NO: 5512468
DOCUMENT-IDENTIFIER: US 5512468 A
**** See image for Certificate of Correction ****

TITLE: Process of producing highly transformable bacterial cells and cells produced thereby

DATE-ISSUED: April 30, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Greener; Alan L.	San Diego	CA		

US-CL-CURRENT: 435/488; 435/252.33, 435/252.8

ABSTRACT:

The invention provided herein includes gram negative bacteria cells containing a gene encoding an enzyme with carbohydrate degrading activity that had been rendered competent to transformation. Carbohydrate degrading enzymes of interest for use in the invention include alpha-amylase. The competent cells of the subject invention may be frozen so as to provide for prolonged storage.

Other aspects of the invention include methods for rendering gram negative bacterial cells, such as E. coli cells competent to transformation. These methods

involve the step of transferring a gene encoding an enzyme with carbohydrate degrading activity into E. coli cells and subsequently rendering the cells competent using any of a variety of competency inducing procedures.

11 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw. D

☐ 10. Document ID: WO 9728248 A1

L3: Entry 10 of 11 File: EPAB Aug 7, 1997

PUB-NO: WO009728248A1
DOCUMENT-IDENTIFIER: WO 9728248 A1
TITLE: METHOD CAPABLE OF INCREASING COMPETENCY OF BACTERIAL CELL TRANSFORMATION

PUBN-DATE: August 7, 1997

INVENTOR-INFORMATION:

NAME	COUNTRY
DONAHUE, ROBERT A JR	US
BEBEE, ROBERT L	US

INT-CL (IPC): C12 N 1/21; C12 N 15/10
EUR-CL (EPC): C12N001/20; C12N015/10

ABSTRACT:

CHG DATE=19990617 STATUS=O>The invention concerns bacterial strains capable of enhanced transformation efficiencies that are produced by the introduction of the F' genetic material. The invention also concerns processes for producing transformable competent bacteria with enhanced transformation efficiencies.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw. D

☐ 11. Document ID: WO 9728248 A1, AU 9722575 A, EP 877794 A1, US 6274369 B1, US 20010046698 A1, JP 2002502232 W, US 6709854 B2, US 20040152184 A1

L3: Entry 11 of 11 File: DWPI Aug 7, 1997

DERWENT-ACC-NO: 1997-402602
DERWENT-WEEK: 200455

TITLE: Bacterium containing F' episome material to increase transformation efficiency - particularly Escherichia coli, for generation of cDNA libraries or cloning

INVENTOR: BEBEE, R L; DONAHUE, R A

PRIORITY-DATA: 1997US-0790820 (January 30, 1997), 1996US-011040P (February 2, 1996), 2001US-0895202 (July 2, 2001), 2004US-0761278 (January 22, 2004)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9728248 A1	August 7, 1997	E	024	C12N001/21
AU 9722575 A	August 22, 1997		000	C12N001/21
EP 877794 A1	November 18, 1998	E	000	C12N001/21
US 6274369 B1	August 14, 2001		000	C12N001/20
US 20010046698 A1	November 29, 2001		000	C12N001/21
JP 2002502232 W	January 22, 2002		022	C12N001/21
US 6709854 B2	March 23, 2004		000	C12N001/20
US 20040152184 A1	August 5, 2004		000	C12N001/21

INT-CL (IPC): C12 N 1/20; C12 N 1/21; C12 N 15/09; C12 N 15/10; C12 N 15/74; C12 N 1/21; C12 R 1:19; C12 N 1/21; C12 R 1:19; C12 N 1/21; C12 R 1:19; C12 N 1/21; C12 R 1:19

ABSTRACTED-PUB-NO: WO 9728248A
BASIC-ABSTRACT:

Bacterium containing F' genetic material (A) and having increased transformation efficiency is new.

USE - The bacterium is used to generate cDNA libraries and to clone samples containing only small amounts of target sequence.

ADVANTAGE - The high transformation efficiency (particularly 109 or more transformants/ mu g purified plasmid DNA) increases the probability that rare clones will be represented in plasmid libraries.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

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Terms	Documents
L2 and transformation efficiency	11

Display Format: - Change Format

Previous Page Next Page Go to Doc#